

IN THE SPECIFICATION

Page 2, line 4, after "antenna" insert --2'--.

Page 9, line 24, change "(not shown)" to --2'--.

Page 18, line 11, delete "that" first occurrence.

Page 19, line 19, after "antenna" first occurrence insert  
--2'--.

IN THE CLAIMS

Please amend claims 1, 7, and 17-19 as follows.

--1. (Twice Amended) An antenna coupling apparatus  
comprising:

a first antenna connected to a portable radio terminal,  
said first antenna being elongated in an axial direction;

a second antenna separated from said first antenna;

an electromagnetic coupling element consisting of a  
conductor that electromagnetically couples said first and said  
second antennas together arranged adjacent to said first  
antenna at a first location along the axial direction of said  
first antenna;

a ground conductor element arranged proximate said first  
antenna; and

cont'd  
C1  
a reflective ground element separate from said  
electromagnetic coupling element arranged adjacent to said  
first antenna and [disposed] electrically connected to the  
ground conductor element, wherein said reflective ground  
element is physically in parallel with and a predetermined  
distance from said electromagnetic coupling element along said  
first antenna in the axial direction for reflecting power  
transmitted from or received by said first antenna toward said  
electromagnetic coupling element.

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--7. (Twice Amended) An external-antenna connecting  
apparatus for a portable radio terminal comprising:

C2  
an onboard antenna connected to the portable radio  
terminal;

an external antenna coupled with said onboard antenna;

a body for receiving the portable radio terminal therein;

an electromagnetic coupling circuit disposed in said body  
for electromagnetically coupling said onboard antenna of the  
portable radio terminal and said external antenna, said  
coupling circuit being out of contact with said portable radio  
terminal with respect to DC components when the portable radio

terminal is received in said body, said electromagnetic coupling circuit including:

[a] an electromagnetic coupling element arranged proximate to said onboard antenna at a first location along an axis of said onboard antenna;

*C3* a ground conductive element arranged proximate to said onboard antenna for providing a ground plane; and

a reflective ground element separate from said electromagnetic coupling element, electrically connected to said ground conductive element, and arranged proximate to said onboard antenna at a second location along the axis of said onboard antenna, wherein said reflective ground element is physically in parallel with and a predetermined distance from said first location for reflecting radio frequency energy toward said electromagnetic coupling element.

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*11*  
*17.* (Amended) An antenna coupling apparatus comprising:

*C3* an electromagnetic coupling element for receiving an electromagnetic signal, said coupling element having a shape which defines a receiving plane;

a ground plane conductor arranged proximate to the electromagnetic coupling element for establishing a ground plane;

*Cont.  
C3*

a reflective ground element separate from said electromagnetic coupling element disposed in a predetermined relation to the electromagnetic coupling element and electrically connected with the ground plane conductor and formed of a shape which defines a reflecting plane, said reflecting plane being [substantially] physically parallel [to] with and disposed a predetermined distance from said receiving plane along a first antenna connected to a portable radio terminal in an axial direction, for reflecting electromagnetic energy toward the electromagnetic coupling element.

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~~18.~~ (Amended) An antenna coupling apparatus for coupling an external antenna with a fixed antenna connected with a portable radio terminal, the apparatus comprising:

a body for receiving the portable radio terminal therein;  
and

an electromagnetic coupling having a trough-like shape with a U-shaped cross section elongated in an axial direction

for receiving the fixed antenna when the portable terminal is disposed in said body, the coupling including:

an electromagnetic receiving element disposed at a first location along the axial direction of said trough-shaped coupling, electrically insulated from the fixed antenna for receiving electromagnetic oscillating signals from the fixed antenna and having a U-shaped cross section being conformal with the cross section of the electromagnetic coupling;

a ground plane disposed proximate to the receiving element; and

a reflective ground element separate from said electromagnetic receiving element and disposed at a second location, said reflective ground element being physically in parallel with and a predetermined distance from the first location along the axial direction of said coupling, electrically insulated from the fixed antenna, having a U-shaped cross-section being conformal with the cross section of the electromagnetic coupling for reflecting electromagnetic energy transmitted by the fixed antenna toward the receiving element.

Cont.  
C3

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13  
--19. (Amended) An onboard external-antenna connecting

apparatus for a portable radio terminal comprising:

an onboard antenna installed on the portable radio terminal;

an external antenna connected to said onboard antenna;

an external power for supplying power to the portable radio terminal;

a body for securing said portable radio terminal upon installing the portable radio terminal into said body from above;

an electromagnetic coupling circuit disposed in said body for electromagnetically coupling said onboard antenna of said portable radio terminal and said external antenna, said coupling circuit being out of contact with said portable radio terminal with respect to DC components when the portable radio terminal is secured in said body, said electromagnetic coupling circuit including:

an electromagnetic coupling element for receiving an electromagnetic signal, said electromagnetic coupling element having a shape which defines a receiving plane;

a ground plane conductor arranged proximate to the electromagnetic coupling element for establishing a ground plane;

*Cont.  
C3*  
a reflective ground element separate from said electromagnetic coupling element disposed in a predetermined relation to the electromagnetic coupling element and electrically connected with the ground plane conductor and formed of a shape which defines a reflecting plane, said reflecting plane being physically parallel with and disposed a predetermined distance from said receiving plane along the onboard antenna in an axial direction, for reflecting electromagnetic energy toward the electromagnetic coupling element;

a connecting member arranged in said body for connecting said external power and the portable radio terminal together to supply power from said external power to the portable radio terminal;

a mounting member movably connected to said body and operating in conjunction with the installing of the portable radio terminal in said body and including a first connector for communication from said external [apparatus] power; and